



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY



सं० 1] नई दिल्ली, शनिवार, जनवरी 3, 1987 (पौष 13, 1908)
No.1] NEW DELHI, SATURDAY, JANUARY 3, 1987 (PAUSA 13, 1908)

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(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS
Calcutta, the 3rd January 1987

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994/Del/86. Sanden Corporation, Wobble plate type compressor with variable capacity mechanism.

995/Del/86. Sanden Corporation, Variable displacement wobble plate type compressor.

996/Del/86. The Minister of Agriculture Fisheries and Food in her Britannic Majesty's Govt. of the United Kingdom of Great Britain and Northern Ireland. Electrochemical treatment of lignins. (Convention date 13th November, 1985) (U.K.).

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860/Mas/86. Decremont, Fluid bed Reactor for the biological Treatment of Water.

861/Mas/86. Schubert & Salzer Maschinenfabrik Aktiengesellschaft. A Method and an Apparatus for supplying conical Bobbins to the winding stations of a Textile Machine.

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865/Mas/86. State of Israel, Derivatives of Quinuclidine.

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866/Mas/86. V. A. Abraham, Electronic Speed Checker.

867/Mas/86. Aruldoss Patrick, A Medium Duty Adjustable Racking system.

868/Mas/86. Lankalapalle Rammohan Rao, Multifilament Incandescent Tubes and Lamps, Multifilament Incandescent Electric Lamps, Filamentless Fluorescent Tubes and Lamps.

869/Mas/86. Rego-Fix AG., Clamping nut for holding an Interchangeable collet Chuck.

870/Mas/86. Vickers Australia Limited, Treatment of Internal Faces of Pipe Bends. (November 7th 1985, Australia).

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ALTERATION OF DATE

158675. Ante dated to 2nd April, 1979.

(8/Del/83)

COMPLETE SPECIFICATION ACCEPTED

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India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 39 E. 158656
Int. Class : C 01 b 33/04.

"A PROCESS FOR THE PRODUCTION OF SILANE".

Applicants : National Research Development Corporation of India, of 20-22, Zamroodpur, Community Centre, Kailash Colony Extension, New Delhi-110 048, India, a Government of India Undertaking and Indian Institute of Technology, Kharagpur, an educational and research organization established by Government of India.

Inventors : Hirendra Nath Acharya, Hari Das Banerjee and Nirmal Chandra Roy.

Application for Patent No. 681/DEL/1982 filed on 8th September 1982.

Appropriate office for opposition proceedings (Rule 4 Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A process for the production of silane which comprises in reducing purified silice in the presence of magnesium to obtain magnesium silicide, purifying the magnesium silicide, heating the purified magnesium silicide with a mineral acid to obtain silane.

(Complete Specification 8 Pages) (Drawings One Sheet)

CLASS : 33 D. 158657
Int. Class : B22d 11/00.

"AN APPARATUS FOR CONTINUOUSLY CASTING METALS SUCH AS ALLOYS OF COPPER".

Applicant : ETABLISSEMENTS GRISET, a French company of 123 rue Leopold Rechossiere Aubervilliers, Seine Saint Denis, France.

Inventor : GERARD DURAND TEXTEE.

Application for Patent No. 779/DEL/1982 filed on 25th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An apparatus for continuously casting metals such as alloys of copper, the apparatus comprising :

- A. a graphite die providing a passage there through which shapes the emergent casting, the die being in at least two parts;
- B. cooling elements for conducting heat away from the die, the die being disposed between the cooling elements, and
- C. means for maintaining the die in surface to surface contact with the cooling elements to promote heat conduction from the die to the cooling elements during metal casting;

- (a) each of said at least two parts of the graphite die comprises a plate of uniform wall thickness, and
- (b) the means for maintaining surface to surface contact comprises one or more compression means connected to each of said plates adapted to apply predetermined compressive forces to areas of the lateral surface of the plate said forces being applied only on the side of the neutral plane farthest from the die surface in contact with the cooling element

Compl. Specn. 16 pages.

Drg. 5 sheets.

CLASS : 129J. 158658
Int. Cl. : B21b 1/02.

"A METALLIC BLANK FORMED FROM A BLOOM TO BE FORMED SUBSEQUENTLY INTO A RAIL".

Applicant : SACILOR, a French, company of 6 rue de Wendel, F 57700 Hayange, France.

Inventor : ANDRE FASESSEL, GABRIEL BERNARD MENNEL AND JACQUES MARIE MICHAUX.

Application for Patent No. 780/DEL/1982 filed on 25th October, 1982.

Appropriate office for opposition proceedings (Rule 4 Patent Rules 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A metallic blank formed from a bloom to be formed subsequently into a rail, said blank having across-section symmetrical about a plane and comprising :

- (a) a first section having five plane faces, two extending parallel to the plane of symmetry and defining the height of the section; and section extending perpendicular to the plane of symmetry and interconnecting the two parallel faces : and two extending from the two parallel faces and converging towards the plane of symmetry,
- (b) a second section having two plane faces extending from the two convergent faces of the first section generally parallel to the plane of symmetry : and,
- (c) a third section having three plane faces, two extending from the two faces of the second section and converging toward the plane of symmetry and a third face extending generally perpendicular to the plane of symmetry interconnecting the two convergent faces.

Compl. Specn. 26 pages.

Drg. 5 sheets.

CLASS : 85J. 158659
Int. Cl. : H05b 9/00.

"AN IMPROVED ELECTROSLAG REMELTING FURNACE FOR ALLOYS."

Applicant : VEREINIGTE EDELSTAHLWERKE AKTIENGESELLSCHAFT (VEW), of Elisabethstrasse 12, 1010 Vienna, Austria, an Austrian company.

Inventor : HELMUT GLAUNINGER, HELMO JAGER, PETER MACHNER AND ALBERT PREINER.

Application for Patent No. 798/DEL/1982 filed on 2nd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An improved electroslag remelting furnace for alloys comprising : a liquid-cooled mold having opposed ends;

said mold confining therein a slag bath and a block formed of metal covered by said slag bath during electrosag remelting;

at least one melt-off electrode formed by said at least one metal;

said melt-off electrode being immersed into said slag bath from one of said opposed ends of said mold defining an open end and being arranged substantially centrally with respect to said mold;

said mold having a mold axis;

a bottom plate for closing the other opposed end of said mold and being arranged to support said mold and said block;

an electric current source : characterised by at least one electrical terminal provided for said bottom plate and spaced eccentric to said mold axis;

at least one conductor connecting said at least one electric terminal to said current source;

said at least one electric terminal being located on a marginal zone of said bottom plate which is remote from said power source, and said at least one conductor extending below the bottom plate at least upto normal plane at the region of lengthwise axis of the mold constituting the mold symmetry axis.

Compl. Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 152-E; 155-F₁.

158660

Int. Cl. : H 01 b 3/22.

HYDROPHOBIC FILLING COMPOSITIONS AND METHOD OF PRODUCING THE SAME.

Applicant : RAYCHEM CORPORATION OF 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025, U.S.A.

Inventors : 1. CHRISTIAN ARTHUR MARIE LOUISE DEBAUWE, 2. PAUL SUNG CHAN.

Application No. 665/Cal/83 filed May 25, 1983.

Convention dated 25th May, 1982 (82/15199) U. K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

33 Claims

A hydrophobic filling composition, comprising :—

(a) a mineral oil;

(b) 6 to 30% by weight of a hydrophobic fumed silica having a primary particle size of less than 0.05 micron; and

(c) a polymeric thickener soluble in the mineral oil.

Compl. Specn. 29 pages.

Drg. 1 sheet.

CLASS : 40-F.

158661

Int. Cl. B 01 j 1/00.

A PROCESS FOR ISOMERISATION OF OLEFINS BY CHANGE OF THE POSITION OF THE DOUBLE BOND.

Applicant : SNAMPROGETTI S.p.A., OF CORSO VENEZIA 16, MILAN, ITALY.

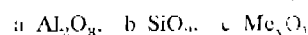
Inventors : 1. ORFEO FORLANI, 2. FRANCESCO ANCILIOTTI, 3. BRUNO NOTARI.

Application No. 669/Cal/83 filed May 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for isomerisation of olefin by change of the position of the double bond in the presence of a catalyst having gamma-alumina as the main component, characterised in that the olefin is isomerised in the presence of a catalyst of general formula.



Where Me_xO_y is the oxide of a bivalent or trivalent metal or metals chosen from Ca, Ba, La, Lu and Lanthanides, a, b, c being the number of moles of Al_2O_3 , SiO_2 and Me_xO_y respectively, b and c being related by the relationship

$$c \geq mb : B$$

where B has a value greater than or equal to 0.01, and b has a value of between 0 and 0.300, preferably between 0.020 and 0.250, and the $(b+c)/a$ ratio is between 0.01 and 9.0, m being a number between 0.7 and 0.1.

Compl. Specn. 19 pages.

Drg. Nil.

CLASS : 80-K, 65-B₁, 32.

158662.

Int. Cl. B 65 d 87/46, 89/24.

DEVICE FOR CONTINUALLY UPGRADING LOW-VAPOR-PRESSURE DIELECTRIC FLUIDS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. EDWARD JOHN WALSH, 2. ROBERT ANTHONY KURZ.

Application No. 721/Cal/83 filed June 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

12 Claims

Device for continually upgrading a low-vapor-pressure dielectric fluid disposed in a tank containing an electrical apparatus, said device comprising means defining a fluid flow path connected or adapted to be connected in fluid flow communication with said tank so as, when in operation, to continually circulate dielectric fluid from the tank, through the fluid flow path, and back into the tank, and fluid decontaminating means disposed in said fluid flow path and comprising means for degassing, demisting, and filtering the dielectric fluid.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 42-D.

158663.

Int. Cl. A 24 b 15/00.

A PROCESS FOR PREPARING NOVEL SMOKING MATERIAL.

Applicant : DUNCANS AGRO INDUSTRIES LIMITED OF 31, NETAJI SUBHAS ROAD, CALCUTTA-700-001, STATE OF WEST BENGAL, INDIA.

Inventor : 1. AMITAVA SANYAL.

Application No. 736/Cal/83 filed June 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for the manufacture of novel smoking materials suitable for use in any form of conventional smoking which

comprises taking the leaves, stalks and stems of at least one material selected from

- (1) *Lactuca* Spp. (*L. Scariola*, *L. Sativa*, *L. Virosa*)—**LETTUCE**,
- (2) *Carica Papaya* Linn (*Caricacens*)—**PAPAW OR PAPAYA**, and
- (3) Extracted Sugar Cane Stalks—**BAGASSE**.

subjecting the said material to curing in atmosphere, removing foreign and dust particles from the cured leaves, subjecting the said material of the above step to a steam treatment in order to increase the moisture level of the material and thereafter, subjecting the material having increased moisture content, to treatment with an conventional casing solution in presence of steam, to obtain cased leaves, thereafter, subjecting the cased leaves to a step of cutting to obtain require materials, thereafter the cut material is passed through steam heated driers to adjust the moisture content to around 14% to 15% followed by cooling the material and spraying desired conventional top flavours on the coiled material and finally, storing the material in bulk at regulated temperatures and relative humidity.

Compl. Specn. 15 pages.

Drg. Nil.

CLASS : 85-J.

158664.

Int. Cl. H 05 b 7/06.

AN ELECTRODE FOR AN ELECTRIC ARC FURNACE.

Applicant : BRITISH STEEL CORPORATION OF 9 ALBERT EMBANKMENT, LONDON SE1 7SN, ENGLAND.

Inventors : 1. ROBERT WALTER MONTGOMERY,
2. HENRY CORY GARNER.

Application No. 709/Cal/83 filed June 4, 1983.

Convention dated 4th June, 1982 (82/16323) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

An electrode for an electric arc furnace, comprising a double-walled tubular metal column, the two walls being electrically insulated from one another and defining an annular channel between them, the inner wall being electrically connected to a conductive screw-threaded member at one end thereof from which an elongated carbon or graphite section depends, and defining a central channel constituting a water flow path connected in series with the annular channel via the said member.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 194-B&C¹.

158665.

Int. Cl. H 03 g 3/00.

IMPROVEMENT IN PROTECTIVE CIRCUIT FOR A SWITCHING TRANSISTOR.

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. ANTONIA BRAJDER.

Application No. 744/Cal/83 filed June 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

In a protective circuit for a switching transistor having switching-off means for switching off the driving pulses of the switching transistor, wherein the switching-off means is activated by comparator means which compares a voltage from the switching transistor at a first input with a reference voltage at a reference input and which switches off the driving pulses if the switching transistor is overloaded, the improvement comprising said first input of said comparator means being

coupled to the base of the switching transistor and comparing the base-emitter voltage of the switching transistor with the reference voltage, said comparator means generating a signal for activating the switching-off means when the base-emitter voltage is outside a normal operating range determined by said reference voltage.

Compl. Specn. 18 pages.

Drg. 2 sheets.

CLASS : 160-A.

158666.

Int. Cl. B 60 p 3/00.

VEHICULAR BODY FOR HAULING HOT SLAG AND OTHER MATERIALS.

Applicant : PHILIPPI-HAGENBUCH INC., AT 7424 W. PLANK ROAD, PEORIA, ILLINOIS 61604, UNITED STATES OF AMERICA.

Inventor : 1. LEROY GEORGE HAGENBUCH.

Application No. 750/Cal/83 filed June 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims

A vehicular body for hauling hot slag and other materials comprising an external skeletal frame of metal members forming the primary load-transmitting structure of the body,

a metal lining supported by said skeletal frame and forming the interior surface of the body for containing loads of material, said lining covering the openings in said skeletal frame, and

means for detachably fastening said lining to said skeletal frame so that said lining can be removed from said frame for maintenance or replacement purposes.

Compl. Specn. 27 pages.

Drg. 3 sheets.

CLASS : 65-B₁, 2₂, 3₃.

158667.

Int. Cl. H 01 f 33/00.

ELECTRICAL TRANSFORMERS.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTRE, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. JOSEPH MICHAEL STUNZI.

Application No. 751/Cal/83 filed June 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

An electrical transformer comprising an enclosure; primary and secondary windings in inductive relation with a three-phase magnetic core disposed within the enclosure; one of the windings in each phase of the transformer having tapped winding sections with tap leads connected thereto for providing different voltages; tap-changing means including a fixed contact for each tap lead, the fixed contacts for each winding section being disposed in groups and at spaced intervals, and a movable contact carrier having thereon a movable contact for each group of fixed contacts, the movable contact for each group extending between adjacent pairs of spaced fixed contacts; and means for moving the movable contact carrier to effect movement of the movable contacts between different pairs of stationary contacts.

Compl. Specn. 11 pages.

Drg. 4 sheets.

CLASS : 187-H.

158668.

Int. Cl. G 08 c 19/00.

A SIGNALING CONVERTER CIRCUIT ARRANGEMENT FOR THE EMISSION D.C. SIGNALING INFORMATION.

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. JOHANN SONTHEIM.

Application No. 756/Cal/83 filed June 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A signaling converter circuit for the emission of d.c. signaling informations from an "incoming" signaling converter, comprising a first impedance connected via respective chokes to the *a* and *b* wires of a telephone line, said first impedance being formed by the series combination of an inductance and a periodically closing electronic switch and the inductance being connected via a rectifier diode to the voltage supply of the signaling converter in such manner that during the opening of the electronic switch the energy stored in the coil is fed back into the voltage supply of the signaling converter.

Compl. Specn. 12 pages.

Drg. 3 sheets.

CLASS : 35 F.

158669.

Int. Cl. E 04 b 35/00, 35/66.

"A PROCESS FOR FORMING A REFRACTORY MASS."

Applicant : GLAVERBEL, OF CHAUSSEE DE LA HULPE 166, B-1170 BRUXELLES, BELGIUM, A BELGIAN COMPANY.

Inventor : PIERRE ROBYN, PIERRE DESCHEPPER.

Application for Patent No. 852/Del/1982 filed on 22nd November, 1982.

Convention date on 25-11-1981/81 35 569/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

15 Claims

A process of forming a refractory mass characterised in that particles of exothermically oxidisable material having an average grain size less than 50 μ m are burned while mixed with particles of incombustible refractory material such as herein described during projection of the mixture against a surface to form a coherent refractory mass on said surface, and in that said oxidisable material comprises silicon and aluminium the aluminium being present in an amount not exceeding 12% by weight of the total mixture.

Compl. Specn. 13 pages.

Drg. 1 sheet

CLASS : 166 B [III(2)].

158670.

Int. Cl. 63 b 21/00, 21/04, 21/20.

"ANCHOR LINE WITH DEVICE FOR TENSIONING THE ANCHOR LINE."

Applicant : ROB VAN DEN HAAK, A NETHERLANDS CITIZEN OF ALIEGRO 114, 2925 BG KRIMPEN A/D IJSSEL, NETHERLANDS.

INVENTOR : ROB VAN DEN HAAK.

Application for Patent No. 859/Del/82 filed on 23rd November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

An anchor line with device for tensioning the anchor line, said anchor line connected to a winch and passing through said device also attached to one or more submerged lines

anchored to a sea bed as counterpart to said anchor line, characterised in that said device is a one-way line passing device comprising a curved tubular housing having mounted therein resilient blocking means in the form of at least one spring pawl resiliently biased to allow the pawl to move out of the way of said anchor line passing through the housing when said anchor line is pulled in the tensioning direction and to move back to resiliently block the return of said anchor line when said pulling is stopped, said housing also being provided with an external fastening eye for fastening said one-way line passing device to said one or more submerged lines.

Compl. Specn. 11 pages. Drgs. 6 sheets.

CLASS : 160 A.

158671

Int. Cl. : B62k 11/00.

"BEARING BODY FOR MOTORCYCLE".

Applicant : PIAGGIO & C.S.p.A., a company organised under law of the Italian Republic of Via A. Cecchi, 5 Genova, Italy.

Inventor : BRUNO GADDI.

Application for patent no. 867/Del/82 filed on 24th November, 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A bearing body for motorcycle which comprises an oscillating arm fulcrumed to the body at one end, and forming at the other end a cantilever adapted to support the rear drive wheel and also the engine/transmission assembly of the motorcycle with its related exhaust pipe silencer, first and second lateral cowls integral with the body on the lateral sides of said body, the first cowl adapted to partially house the engine/transmission assembly and the second cowl adapted to partially house a spare wheel, and a cavity for free partial housing of said silencer, said cavity being disposed in the lower part of said body, anterior to the fulcrum of said oscillating arm.

Compl. Specn. 7 pages.

Drg. 3 sheets.

CLASS : 160 A [III(3)].

158672

Int. Cl. : B 62 k — 11.02.

"A BODY FOR MOTORSCOOTER".

Applicant(s) : PIAGGIO & C. S.p.A., a company organised under law of the Italian Republic of Via A. Cecchi, 6 Genova, Italy.

Inventor(s) : BRUNO GADDI.

Application for Patent No. 868/DEL/1982 filed on 24th November 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A motorscooter body wherein the lateral cowls are integral with said body characterized in that it also comprises releasable restraining means provided within one of said cowls for securing a spare wheel to the side of the body within the cowl, there being also a lockable aperture proximal to said releasable restraining means inside said cowl housing the spare wheel.

Compl. Specn. 5 Pages.

Drg. 3 Sheets.

CLASS : 81 [XXXIX(4)]; 93 [XXXIII(4)].

158673

Int. Cl. : A 45 d — 27/02; A 47 k — 5/14; A 62 c — 5/02.

"FOAM DISPENSING DEVICE."

Applicant(s) : HERSHEL EARL WRIGHT of Eighth Drive, Decatur, Illinois 62521, United States of America, a citizen of the U. S. A.

Inventor(s) : GEORGE WILLIAM FORD.

Application for Patent No. 902/DEL/1982 filed on 10th December 1982.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

A foam dispenser device, comprising an outer container for holding foamable liquid having a discharge port, and a foam producing unit mounted to the container and separating the area adjacent the discharge port and the interior of the container, said foam producing unit including an inner container disposed within the outer container, and having an opening communicating with said outer container, a closure for the inner container having pressurized air inlet means and foam outlet means, foam producing means communicating with the foam outlet means and including an inwardly extending conduit having an opening communicating with the interior of the inner container, and valve means for the inner container opening said valve means selectively closing said opening when air pressure within the inner container is increased, to supply foamable liquid from the inner container to the conduit of the foam producing means, said valve means selectively opening said opening when air pressure within the inner container is decreased to permit flow of foamable liquid from the outer container to the inner container.

Compl. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS : 40 H.

158674

Int. Cl. : B01d, 53/00, 53/34.

"A PROCESS FOR THE PURIFICATION OF A GAS STREAM".

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF OHIO, UNITED STATES OF AMERICA, HAVING OUR PRINCIPAL PLACE OF BUSINESS AND A POST OFFICE ADDRESS AT 1144 EAST MARKET STREET, AKRON, OHIO, 44316, UNITED STATES OF AMERICA.

Inventors : KENNETH JAMES FRECH & JAMES JUNICHI TAZUMA.

Applicatoin for Patent No. 930/Del/1982 filed on 21st December, 1982.

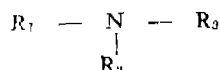
Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

(11 Claims)

A process for the purification of a gas stream of the kind such as herein described by removing hydrogen sulfide, sulfoxides and mercaptans from the gas stream which comprises :

(a) contacting the gas stream with an oxide of a metal selected from the group consisting of iron, chromium, cobalt, lead, magnesium, molybdenum, nickel, copper, vanadium, zinc, tungsten and antimony;

(b) introducing on to the oxide of metal, continuously or intermittently, an amine of the structural formula



wherein R_1 , R_2 and R_3 are the same or different radicals selected from the group comprising hydrogen, alkyls of 1 to 8 carbon atoms and alkanols of 1 to 8 carbon atoms in an anhydrous form, aqueous solutions or water/alcohol solutions thereof; and

(c) subsequently or concurrently introducing an oxidizing agent, continuously or intermittently, selected from the group comprising oxygen, hydrogen peroxide, air, tertiary dibutyl peroxide, t-butyl hydroperoxide, cumene hydroperoxide and dicumyl peroxide, on the metal oxide while continuing to contact the gas stream with the metal oxide.

(Complete specification 23 pages).

CLASS : 32E.

158675

Int. Cl. : C08f 13/00.

"A METHOD OF POLYMERIZING 2-PYRROLIDONE TO FORM A MELT EXTRUDABLE PRODUCT".

Applicant : ARTHUR CONARD BARNES AND CARL EDMUND BARNES, BOTH CITIZENS OF UNITED STATES OF AMERICA, OF 482 TRINITY PASS ROAD, NEW CANNAN, CONNECTICUT 06840, UNITED STATES OF AMERICA.

Inventor : ARTHUR CONARD BARNES AND CARL EDMUND BARNES.

Application for Patent No. 8/DEL/1983 filed on 6th January, 1983.

Divisional to 218/DEL/1979 dated 2nd April, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

(5 Claims)

A method of polymerising 2-pyrrolidone to form a melt extrudable product comprising the steps of

(1) treating an alkali metal hydroxide with monomeric 2-pyrrolidone and removing the water formed by distillation under reduced pressure to form a substantially anhydrous solution of alkali metal pyrrolidonate in 2-pyrrolidone,

(2) adding a substantially anhydrous quaternary ammonium salt in an amount of from 0.01 to 1.5 mols per mol of alkali metal pyrrolidonate, the anion of said quaternary ammonium salt being selected from the group consisting of sulfate and hydrogen sulfate,

(3) adding to the resulting mixture a polymerisation activator such as herein described,

(4) polymerising the mixture at temperature in the range of from 20 — 80°C.

(Complete specification 30 Pages. Drawing one sheet).

CLASS : 55 E.

158676

Int. Cl. : A 61K 27/00.

"PROCESS FOR THE PREPARATION OF A MEDICINE USEFUL FOR THE REMOVAL OF HEMORRHOIDES."

Applicant : DR. SARLA SHARMA, OF D-15, ANSARI NAGAR, NEW DELHI, INDIA, AN INDIAN NATIONAL.

Inventor : DR. SARLA SHARMA.

Application for Patent No. 103/DEL/83 filed on 17th February, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

(7 Claims)

Process for the preparation of a medicine useful for the removal of hemorrhoids which comprises taking in finely powdered form 60 to 80% by weight of bichanuniyan, 2 to 10% by weight of root of pipal, 4 to 10% by weight of black pepper, 2 to 10%, by weight of caraway, 2 to 10% weight of pipal, 2 to 10% by weight of aniseed, 2 to 10% by weight of root of puskar, 2 to 10% by weight of dry ginger, 2 to 10% by weight of seed of neem and 2 to 10% by weight of black caraway grinding them together to obtain a thorough blend, the weight per cent being based on the total weight of the preparation.

(Complete specification 8 pages).*

CLASS : 84C [XXXII(2)]

158677

Int. Cl. : C10 1 5/40; 5/02; 5/00.

"A METHOD OF MANUFACTURING BRIQUETTES OF STRAW OR OTHER COMBUSTIBLE VEGETATIVE MATTER."

Applicant (s) : HANS DITLEV POULSEN, A DENISH CITIZEN OF DAGMARVEJ 23, SNEBBERG, DK-1400 HERNING DENMARK.

Inventor(s) : IDEM.

Application for Patent No. 273/DEL/83 filed on 29th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(6 Claims)

A method of manufacturing combustible pills or briquettes of straw or other combustible vegetative matter of the kind as here in described, which is mixed with a binding agent and compacted into pills or briquettes by extrusion or otherwise, characterised in that fly ash is used as a binding agent and that the substantially dry material is compacted by a pressure sufficient to generate in the material a temperature of at least 75°C, preferably 100—200°C.

(Complete specification 11 pages).

CLASS : 55-F & 144A.

158678

Int. Cl. : A61 J 3/00.

"A PROCESS FOR COATING BASED ON PASSAGE OF CORE MATERIAL THROUGH MULTIPHASE SYSTEM".

Applicant : AJAY KUMAR BANGA, ANIL KUMAR MAHAN AND DEEPAWAN DASS MIGLANI COLLEGE OF ENGINEERING, NEW DELHI-110017, ALL INDIANS.

Inventors : AJAY KUMAR BANGA, ANIL KUMAR MAHAN AND DEEPAWAN DASS MIGLANI.

Application for Patent No. 303/DEL/83 filed on 11th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

(4 Claims)

A process for coating any core material such as herein described in any form such as powders, granules, crystals, capsules, pills, seeds or liquid droplets by passing the core material cooled to a temperature below 12.5°C through a multiphase system comprising of a coating phase consisting of a solution of any coating material such as herein described in a solvent or mixture of solvents such as herein described and maintained at a temperature above 25°C, middle phase which is immiscible with coating phase and consists of any liquid such as herein described and is at a room temperature and a desolvating phase which is miscible with the solvent employed in coating phase but is a non-solvent for coating material and is immiscible with the middle phase and consists of any liquid or mixture of liquids such as herein described and is at a room temperature, all the three phases being housed in a single vertical column in such a way that the middle phase constitutes the middle layer, allowing the core material to pass through all the three phase, in such a sequence that the core material firstly passes through the coating phase then through the middle phase and finally through the desolvating phase, the core material gets enveloped with a film of coating solution while passing through the coating phase and the film enveloped around core material gets rigidised while passing through desolvating phase resulting in formation of coated product which can be removed and dried, provided further that a provision for agitation can be optionally made in the desolvating phase to prevent sticking of coated particles to each other till complete rigidisation has taken place.

(Complete specification 18 pages).

2—397 G1/86

CLASS : 102-B.

158679

Int. Cl. F 15 b 13/00.

A HYDRAULIC POWER TRANSMISSION SYSTEM FOR ENGINE DRIVEN VEHICLES.

Applicant : VICKERS, INCORPORATED, OF 1401 CROOKS ROAD TROY, MICHIGAN 48064, UNITED STATES OF AMERICA.

Inventors : 1. RAJAMOULI GUNDA, 2. MICHAEL RHU MCCARTY, 3. MELVIN ARTHUR RODE.

Application No. 757/Cal/83 filed June 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

A hydraulic power transmission system for engine driven vehicles, particularly for controlling distribution of hydraulic power among motive and implement applications on an engine driven vehicle comprising.

hydraulic valve means associated with each of said motive and implement applications for controlling actuation at the associated said application, the said hydraulic valve means associated with at least said implement applications including means responsive to an associated electrical input signal for controlling actuation at the associated said implement application,

operator control means for separately controlling each said valve means, including means for sensing operator demand at each said control means and providing an associated electrical signal as a function of said demand,

first and second electrically controlled variable output hydraulic pumps adapted to be drivably coupled to the vehicle engine, each said pump including means responsive to an associated electrical signal for controlling hydraulic output at the associated pump,

first and second hydraulic fluid flow means respectively connecting said first pump to the said hydraulic valve means associated with said motive applications and said second pump to the said hydraulic valve means associated with said implement applications,

means responsive to an electrical control signal for selectively interconnecting said first and second fluid flow means, and

electronic control means responsive to said electrical demand signals from said operator control means for individually and selectively controlling said first and second pumps, the said hydraulic valve means associated with said implement applications and said interconnecting means as a function of total hydraulic power demand.

Compl. Specn. 11 pages.

Drg. 3 sheets.

CLASS : 39-L; 141-D.

158680

Int. Cl. C 01 f 7/14.

PROCESS FOR THE PRODUCTION OF AN ALUMINIUM TRIHYDROXIDE OF LARGE GRANULOMETRY.

Applicant : ALUMINIUM PECHINEY, OF 28 RUE DE BONNEL 69003, LYON, FRANCE.

Inventors : 1. BENOIT CRISTOL, 2. JACQUES MORDINI.

Application No. 782/Cal/83 filed June 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

A process for the decomposition of a supersaturated alkali metal aluminate solution produced by means of the Bayer process of alkaline attack on bauxites with the aim of simultaneously obtaining a high level of productivity and an aluminium trihydroxide of large granulometry, of which 10% at most of the particles produced have such smallest dimension below 45 microns, by the introduction of seeding agent, said process comprising bringing the whole of the seeding agent used into contact with the whole of the alkali metal aluminate solution to be decomposed, characterised in that :—

- (a) in the decomposition zone of the Bayer process, comprising n stages in a cascade configuration, there is produced a suspension having a high proportion of dry matter or at least 100 g/l of alkali metal aluminate solution to be decomposed, in at least one stage, by the introduction of a seeding agent comprising crystals or a aluminium trihydroxide of non-selected granulometry;
- (b) after a residence time in the decomposition zone at a maximum temperature in the range of from 50°C to 75°C, with the ratio by weight of dissolved Al_2O_3 to caustic Na_2O obtained as at most equal to 0.7, a fraction comprising at most 50% by volume of the suspension with a high proportion of dry matter, circulating in the decomposition zone, is drawn off;
- (c) then, after the operation of drawing off said fraction of suspension, said fraction is introduced into a classification zone in which :—

c₁—the grainy portion separated is extracted and constitutes the production of $Al(OH)_3$ of large granulometry; and

c₂—the other separated portion, which forms a suspension, is withdrawn from the classification zone and combined with the remaining fraction of the suspension circulating in the decomposition zone, which was not subjected to the classification step; and

- (d) the suspension resulting from the operation carried out in c is subjected to a solid-liquid separation operation, the solid phase separated constituting the aluminium trihydroxide seeding agent of non-selected granulometry, which is recycled to the decomposition zone of the Bayer process.

Compl. Specn. 23 pages.

Drg. 1 sheet.

CLASS : 98-G.

158681

Int. Cl. F 28 d 7/00.

IMPROVEMENTS IN OR RELATING TO HEAT EXCHANGER.

Applicant : WATER SERVICES OF AMERICA, INC., A WISCONSIN CORPORATION 8165 WEST TOWER AVENUE, MILWAUKEE, WISCONSIN 53223, UNITED STATES OF AMERICA.

Inventors : 1. WALTER JOSEPH BARON, 2. LAIRD CLARK CLEAVER.

Application No. 788/Cal/83 filed June 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

12 Claims

A heat exchanger having a housing, and having a plurality of longitudinally extending fluid flow tubes disposed within said housing and having tube sheets disposed within said housing and with said tube sheets having openings in communication with the ends of said tubes, and further having

longitudinally extending baskets for receiving shuttling tube cleaning elements :—

(a) a retaining plate fixedly disposed adjacent to the outer face of a said tube sheet,

(b) and means, including said retaining plate, mounting a said basket in fixed relationship to said tube sheet and to an end of a said tube.

Compl. Specn. 12 pages.

Drg. 1 sheet.

CLASS : 206-B.

158682

Int. Cl. : G 06 f 1/00.

ASSOCIATIVE PROCESSOR.

Applicant : INTERNATIONAL STANDARD ELECTRIC CORPORATION, OF 320 PARK AVENUE, NEW YORK 10022, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. JOHN MICHAEL COTTON.

Application No. 794/Cal/83 filed June 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

17 Claims

An associative processor comprising :—

an array of rows and columns of associative cells, each of the cells being adapted to store simultaneously a sum bit and a carry bit, and each of the cells including marking means for identifying that one or more particular cells contains either a multiplier or a multiplicand bit or any combination thereof, means for storing a multiplicand bit with a multiplier bit, means for enabling the cell during a multiplication operation in such a way that the cell stores two bits of the multiplication result, arithmetic logic unit means for serially receiving multiplier bits for adding or subtracting the masked multiplicand bit to the results of the arithmetic operation from the previous shift time to derive a current multiplication result, and means for coupling the current multiplication result to the adjacent associative cell in the same shift time in which the current result is obtained in such a way that multiplication occurs simultaneously in adjacent cells for a multiplicand of arbitrary digit length and a multiplier of fixed or variable length.

Compl. Specn. 28 pages.

Drg. 6 sheets.

CLASS : 4-A.

158683

Int. Cl. B 64 d 47/00.

CONTROL ASSEMBLY WITH RETRACTABLE FLAT PANEL INSTRUMENT PACK.

Applicant : BRITISH AEROSPACE PUBLIC LIMITED COMPANY, OF 100, FALL MALL, LONDON, SW1Y 5HR., ENGLAND.

Inventors : 1. JAMES BARRY OWEN, 2. PETER ROYD WILKINGSON.

Application No. 815/Cal/83 filed June 30, 1983.

Convention date 30th June, 1982 (82 18868) United Kingdom and 26th March, 1983 (8308411) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A console assembly with retractable flat panel instrument pack arranged to present a display area including a fixed structure, a movable panel having a face region and an edge region, the edge region being of substantially less area than the face region, mounting means mounting the movable panel on the fixed structure for movement between a stowed position in which only the edge region is directed for presentation to a display position in which its face region is presented, thereby providing a temporary display area.

Compl. Specn. 15 pages.

Drg. 6 sheets.

CLASS : 206-E.

158684

12 Claims.

Int. Cl. : G 08 c 25/00.

A CIRCUIT FOR EXTRACTING THE SQUARE ROOT OF AN INCOMING SIGNAL.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1910 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventors : 1. MARION ALVAH KEYES, 2. WILLIAM LEE THOMPSON.

Application No. 824/Cal/83 filed July 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

7 Claims

A circuit for extracting the squareroot of an incoming signal comprising a frequency generator producing a substantially constant frequency output, a first multiplying means connected to said frequency generator and to said first multiplying means, counter means connected to said first and second multiplying means to regulate the operation thereof, and means for comprising the output of said second multiplying means with the incoming signal, said comparing means producing an output signal in response to a difference between the output of said second multiplying means and the incoming signal, said output signal controlling the output of said counter means.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 181

158685

Int. Cl. : F 16 j 15/00.

SHAFT SEALING APPARATUS.

Applicant : HITACHI, LTD., OF 6, KANDA SURUGADAI 4-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. KATSUTOSHI NII, 2. KENPEI OKANO, 3. SHUNZO TOMIOKA.

Application No. 828/Cal/83 filed July 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

6 Claims

A shaft sealing apparatus comprising a collar projecting outwardly from a rotary shaft, a casing encasing said rotary shaft and said collar, and seal ring means carried by said casing and abutted against one axial end surface of said collar to form a fluid tight seal therebetween, characterized in that a plurality of radial grooves are formed on said one axial end surface of said collar, and each of said radial grooves extends from a central portion of said collar to an outer peripheral edge thereof.

Compl. specn. 14 pages.

Drg. 5 sheets.

CLASS : 24-D:

158686

Int. Cl. : B 60 t 17/00.

HYDRAULIC SYSTEM OF BRAKING AND BRAKING ENERGY RETRIEVING AND REUTILIZING DEVICE.

Applicant & Inventor : BIMAN KUMAR PATHAK, OF 43/G, VIDYAYATAN SARANI, CALCUTTA-35, WEST BENGAL, INDIA.

Application No. 838/Cal/83 filed July 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

A hydraulic system for braking a moving shaft or axle or a vehicle, for retrieving its kinetic energy, storing the energy and utilising the energy for accelerating or starting the vehicle of shaft or axle comprising a hydraulic pump having its shaft drivingly connected to clutch shaft of the vehicle, a reservoir for hydraulic fluid connected to inlet of the pump one for a plurality of hydraulic accumulators connected to the outlet of the pump for receiving and storing the fluid under pressure during braking and valve means for supplying the fluid under pressure from the accumulators to the pump for driving the pump as a motor and return the energy to the clutch shaft.

Compl. Specn. 12 pages.

Drg. 1 sheet.

Class. 194-c8.

158687.

Int. Cl. H 01 1 15/02.

APPARATUS FOR PRODUCING IMPROVED PHOTO-VOLTAIC DEVICES.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675 WEST MAPLE ROAD, TROY, MI 48064, UNITED STATES OF AMERICA.

Inventors : 1. JOACHIM DOEHLER, 2. VINCENT CANNELLA, 3. RICHARD OWEN GRAY, JR.

Application No. 845/Cal/83 filed July 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

17 Claims.

An apparatus for producing improved photovoltaic devices by substantially reducing warpage of a relatively large area, relatively thin web of substrate material adapted to follow a normal elongated path of travel through at least one isolated deposition chamber wherein an amorphous semiconductor alloy layer is deposited onto one surface of the substrate; the apparatus including, in combination :

Means within the at least one deposition chamber for flattening the web of substrate material by creating an attractive force which urges the web out of its normal path of travel and into a flattened, substantially planar path of travel through said at least one deposition chamber, such that warpage of the web of substrate material is substantially reduced so that a uniform amorphous semiconductor alloy layer may be deposited onto the one surface of the web.

Compl. Specn. 46 pages.

Drg. 2 sheets.

CLASS : 150-E.

158688

Int. Cl. F 16 1 47/00.

PLASTIC LINED PIPE JOINT AND METHOD OF FORMING THE SAME.

Applicant :—THE DOW CHEMICAL COMPANY, OF 2030 DOW CENTER ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventor : 1. ELTON DELMONT PRUETER.

Application No. 881/Cal/83 filed July 15, 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

10 Claims

A pipe joint comprising a plastic lined conduit having a synthetic resinous pressure deformable liner disposed within a pressure deformable metal conduit, said plastic lined conduit having at least one end defining a radially outwardly projecting flange composed of deformed metal of the metal conduit and deformed plastic of the liner, a loose ring having a generally planar face and a tapering face and dis-

posed against the outwardly projecting flange of the metal conduit the tapering face of the loose ring being remote from the radially outwardly projecting metal flange and tapering outwardly toward a periphery of the flange, a split "V" clamp disposed about the loose ring said "V" clamp having an opposed tapering surface engageable with the tapering face of the loose ring for forcing the plastic liner flange against an opposed liner flange engaging sealing surface, characterized by a hot melt adhesive sealer disposing between the loose ring and the adjacent pipe flange, said sealer being present in a quantity sufficient to adhere the loose ring to the conduit flange and fill any space which may be defined between the loose ring and adjacent conduit flange.

Compl. Specn. 11 pages. Drg. 1 sheet.

CLASS : 69G [LIX(1)].

158689

Int. Class : H 01h—21/00.

"CONTROL SWITCH".

Applicant (s) : YOGENDRA NATH BHARGAVA, an Indian national residing at D-980, New Friends Colony, New Delhi-110014, India.

Inventor (s) YOGENDRA NATH BHARGAVA.

Application for Patent No. 840/DEL/1982 filed on 16th November 1982. Complete Specifications left on 28th October 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A control switch comprising a removeable actuator or handle mounted on a shaft, at least one rotatable switching module removably mounted on said shaft and can be actuated by turning the said actuator, said rotatable switching module comprising at least a first moveable contact and a second moveable contact spaced from each other, a fixed terminal or contact engageable by said moveable contacts, said moveable contacts being actuatable by the actuator, one or more push switching modules removeably mounted on said shaft and actuatable by imparting a lateral displacement to the said shaft so as to cause a switching action simultaneously lock or unlock the rotary switching module by an indexing module provided between the said push and the said rotary switching modules.

(PROVISIONAL SPECIFICATIONS SIX PAGES)

Compl. Specn. 13 pages. Drgs. 2 sheets.

CLASS : 12C & 27G&I.

158690

Int. Class : B21b 43/00.

"METHOD OF PRODUCING OF CONCRETE REINFORCEMENT BARS OF STEEL."

Applicant : RABINDER SINGH & KRISHNAMURTY RAMAMRITHAM IYER, BOTH INDIAN NATIONALS OF D-1, VIRAT BHAWAN, DOCTOR MUKHERJEE NAGAR, NEAR BATRA CINEMA, DELHI-11009, INDIAN THE PARTNERS OF SINGH & ASSOCIATES AN INDIAN PARTNERSHIP FIRM OF THE ABOVE ADDRESS.

Inventors : RABINDER SINGH & KRISHNAMURTY RAMAMRITHAM IYER.

Application for patent no. 846/Del/82 filed on 17th November, 1982.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 claims

A method of producing concrete reinforcing bars of steel comprising steps of:—

Hot rolling the steel bars through a rolling mill; Cooling the said steel bars in a cooling box containing a cooling medium characterized in that said bars are passed quickly through said cooling box so that only the surface layer is cooled to the martensite transformation temperature to convert it from austenite to a martensite layer and that the core remains austenite; the steel bars leaving the cooling box are exposed to still air to allow heat from the core to flow to the cooled surface layer and allowing thereby a self-tempering of the cooled surface layer of said steel bar; the steel bars are cut into predetermined lengths; and the cut length of the steel bars are laid on a cooling bed until the steel bars are cooled to the atmospheric temperature to transform the core of the steel bars not already cooled into ferrite and pearlite or ferrite, pearlite and bainite.

(Complete specification 7 pages

Drawing 1 sheet).

CLASS : 25 D & 27 D, L.

158691

Int. Cl. E04c 2/00, 3/20, E01b 5/00, E01d 7/02, F16a 5/00.

"COMPOSITE, PRE-STRESSED, STRUCTURAL MEMBER AND METHOD OF MAKING SAME".

Applicant : STANLEY JOSEPH GROSSMAN, A U.S. CITIZEN, OF 1024 CRUCE, NORMAN, OKLAHOMA 73069, UNITED STATES OF AMERICA.

Inventor : STANLEY JOSEPH GROSSMAN.

Application for Patent No. 858/DEL/1982 filed on 23rd November 1982.

Appropriate Office for opposition proceedings (Rule, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A method of making a composite pre-stressed structural member, in which a mould is formed and a support member is provided, the mould being filled with a mouldable material which is hardened to form a portion of the structural member, which in use is supported by said support member, characterised in that the support member is connected to the upper side of the mould, so that deflection of the mould causes deflection of the support member, in that support member connector means are provided to extend downwardly into said mould, in that the mould and support member are moulded so that deflection of the mould and support member can occur, in that the mould is then filled with a mouldable material which hardens to form a composite structural member with said support member, and in that the mould is deflected prior to completion of the hardening of the mouldable material such that the support member is placed in stress condition to form said composite, prestressed structural member upon hardening of the mouldable material.

Compl. specn. 18 pages.

Drgs. 4 sheets.

CLASS : 195 B. D

158692

Int. Cl. : F 16 k 3/00.

"IMPROVEMENTS IN SLIDING GATE VALVES FOR USE IN POURING MOLTEN METALS".

Applicant : USS ENGINEERS AND CONSULTANTS, INC., a corporation of the State of Delaware, United States of America, doing business at 600 Grant Street, Pittsburgh, State of Pennsylvania, United States of America.

Inventor : KENNETH WILLIAM BATES, and NORMAN HENRY WATTS.

Application for Patent No. 879/DEL/1982 filed on 25th November, 1982. Convention date on 26-11-1981/35745 and 26-11-1981/35746 (U. K.)

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972). Patent Office Branch, New Delhi-110005.

7 Claims

A sliding gate valve for use in the pouring of molten metals from a vessel such as herein described comprising a mounting plate, support plate and at least two orificed refractory valve bodies, one of said valve bodies being carried by each of said plates, the bodies being spring-pressed into sealing facial contact with each other, one of said valve bodies serving as a gate and being movable relative to said other body or bodies for controlling the flow of metal through said valve, spring means provided on said support plate to act on the downstream one of said valve body and thrust it against the upper body and attachment means disposed at spaced locations about the valve for securing said plates together with a pre-set spacing there between and, when disconnected permitting the plates to be pivotally swung apart to allow for inspection or replacement of said valve bodies, each of said attachment means comprising a clevis with its connected clevis pin mounted on one of said plates and an eyebolt having a threaded shaft secured within an aperture in the other of said plates, the end of said eyebolt being pivotally connected to said clevis pin by means of a nut engaging said threaded shaft of said eyebolt, each of said clevises of said clevises being of predetermined dimensions such that when the nuts on the eyebolts are tightened to draw said plates together the clevises mounted on the one plate about the surface of the other plate to maintain said pre-set spacing between said plates.

Compl. specn. 19 pages.

Drg. 4 sheets.

CLASS : 159 M J, 206 E. [LXII]

158693

Int. Cl. : B611 1/02, H04b 1/06.

"A RAILWAY SIGNAL RECEIVER".

Applicants : WESTING HOUSE BRAKE AND SIGNAL COMPANY LIMITED, a British company, of Pew Hill, Chippenham, Wiltshire, United Kingdom.

Inventors : ANDREW JOHN COOK AND PAUL DAVID NEGUS.

Application for Patent No. 896/DEL/1982 filed on 8th December, 1982. Convention date 22nd December 1981/8138634, 18th August 1982/8223767 (Great Britain).

Appropriate Office for opposition proceedings (Rules, 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A railway signal receiver for electrical signals carried by railway lines comprising sensing means (3a, 4a) connected to the railway lines (1, 2) to sense the signals, sampling means (6) connected with the sensing means (3a, 4a) and operative in the time domain to continuously sample a sensed signal, data memory means (7) connected with the output of the sampling means (6) for storing a plurality of sample values, means (11 to 20) connected to said data memory means for performing a discrete Fourier transform (DFT) on said stored sample values, results memory means (21, 22) connected to said DFT performing means for storing the results of the transformation, means (24) connected with the results memory means which is responsive to the final results of the transformation in the frequency domain to identify the sensed signal, means for discriminating between a frequency shift keyed or frequency modulated signal comprising calculating means connected with said results memory means for calculating from information stored in the final transformation results memory (22) of said results memory the phase angle relative to the carrier signal of the resultant sideband vector and means connected with said calculating means for discriminating against signals for which said phase angle is substantially 0° or 180° whereby to distinguish a frequency modulated signal from a confusingly similar amplitude shift keyed signal.

Compl. specn. 23 pages.

Drg. 5 sheets.

Class : 40 H

158694

Int. Class : B 01 d 53/02.

"A RAPID PRESSURE SWING ADSORPTION PROCESS"

Applicant : UNION CARBIDE CORPORATION, Manufacturers, a Corporation organized under the laws of the State of New York, located at Old Ridgebury Road, Dandury, State of Connecticut, 06817, United States of America.

Inventor : THOMAS JOSEPH DANGIERI, REBERT THOMAS CASSIDY.

Application for Patent No. 904/DEL/1982 filed on 10th December 1982.

Appropriate office for opposition proceeding (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(48 Claims)

A rapid pressure swing adsorption process for the selective adsorption of at least one more readily adsorbable gas component from a feed gas mixture in an adsorption system having at least two adsorbent beds, each of which undergoes a cyclic processing sequence that includes (1) feeding said gas mixture to the feed end of the bed for adsorption at high adsorption pressure, with withdrawal of the less readily adsorbable gas component as product effluent from the discharge end of the bed, (2) countercurrently depressurizing said bed, thereby exhausting the more readily adsorbable component from the feed end of the bed, and (3) repressurizing said bed from the lower pressure reached during countercurrent depressurization, the improvement comprising temporarily discontinuing the feeding of said gas mixture to the adsorption system upon completion of the feed step to each bed in the system, the time of said feed step to each bed and the time of discontinuity of feed before commencing the passing of said gas mixture to the next succeeding bed being approximately the same throughout the processing cycle, the feed step for each bed being shorter in duration than said exhaust step, whereby the discontinuous feed cycle enables greater productivity to be achieved for a given product gas purity without increase the size of the adsorption system, thereby enhancing overall process performance.

(COMPLETE SPECIFICATION 31 PAGE)

Class : 32 E.

158695

Int. Class : C08f, 1/09, 1/11.

"PROCESS FOR PRODUCING LOW FUSION BIMODAL VINYL DISPERSION RESINS".

Applicant : THE B.F. GOODRICH COMPANY, a corporation organized under the laws of the State of New York, with main offices at 500 South Main Street, Akron, Ohio 44318, United States of America.

Inventor : HENRY WU-HSIANG YANG.

Application for Patent No. 919/Del/1982 filed on 16th December 1982.

Appropriate office for opposition proceedings (Rule 4, Patents, Rules, 1972) Patent Office Branch, New Delhi-5.

(14 Claims)

A process for producing low fusion bimodal vinyl dispersion resins by emulsion polymerization comprising,

(1) preparing by polymerizing a small component polymer latex of a vinyl or vinylidene halide or copolymers thereof with each other or either with one or more polymerizable olefinic monomers having a terminal $\text{CH}_2=\text{C}$ grouping in an aqueous medium in the presence of an emulsifier and a free radical yielding water-soluble initiator to produce a polymer having a particle size in the range of 0.1 to 0.5 micron;

(2) preparing a seed polymer of vinyl monomer(s) by polymerizing vinyl or vinylidene halide with optionally other vinyl monomers in an aqueous medium in the presence of an emulsifier and a free radical yielding water soluble initiator to produce a polymer having a particle size in the range of about 0.3 to about 0.7 micron.

(3) overpolymerizing in any known manner said seed polymer of (2) with one or more vinyl monomers as described in (1), to give an overpolymer latex, said overpolymer having a particle size in the range of 0.5 to 1.5 micron;

(4) intimately blending the small component polymer latex of (1) and the overpolymer latex of (3), said latex blend containing from 10% to 14% of (1) and from 90% to 60% of (3); and

(5) drying in any known manner said latex blend and recovering in any known manner the bimodal vinyl dispersion resin in dry powder form.

(Complete specification 22 pages).

Class : 33 F&D.

158696

Int. Class : B 22c 1/16, 1/20.

"A METHOD OF MAKING. FOUNDRY MOULDS AND CORES"

Applicant : BORDEN (UK) LIMITED of North Baddesley, Southampton, SO5 9B, England, a British Company.

Inventors : PETER HERBERT RICHARD BRYAN LEMON, JEFFREY DAVID RAILTON, DEREK WILLIAM BAKER AND VINCENT COPPOCK.

Application for Patent No. 923/DEL/82 filed on 17th December 1982.

Convention Date on 24th January 1982/8201688/(G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-11005.

(10 Claims).

A method of making a foundry mould or core which method comprises mixing a granular refractory material as herein described with a binder which comprises :—

(1) from 0.25 to 2.5% by weight of the granular refractory material of an aqueous solution having a solids content of from 50 to 75% by weight, of a potassium alkali phenolformaldehyde resin, having the following characteristics :—

(a) a weight average molecular weight (Mw) of from 700 to 2000;

(b) a formaldehyde; phenol molar ratio of from 1.2 : 1 to 2.6 : 1 and

(c) A KOH : phenol molar ratio of from 0.5 : 1 to 1.2 : 1;

(2) from 0.05 to 3% by weight of the resin solution of at least one silane; and

(3) from 20 to 110% by weight of the resin solution of at least one ester active to catalyse curing of the resin; forming the mixture and allowing the mixture to set by curing the resin in the binder.

(Complete Specification 18 Pages)

Class : 128 G.

158697

Int. Class : A61m 25/00.

"AN IMPROVED PERITONEAL DIALYSIS CATHETER"

Applicant : GHANSHYAM DAS AGRAWAL, an Indian national of Biryaganj, Shahjahanpur-242-001, U.P., India.

Inventor : GHANSHYAM DAS AGRAWAL.

Application for patent No. 935/Del/82 filed on 23rd December 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(5 Claims)

An improved peritoneal dialysis catheter comprising a tube made of silicon elastomer, said tube having a distal and proximal end, a plurality of holes provided along the length of the said tube near the distal end for introduction and withdrawal of the fluid from the pelvic cavity characterised in a plurality of cuffs made of polyester fabric for suturing the catheter to the tissues of a patient provided embracing said tube, a weight provided at the distal end of said tube for retaining the said distal end of the tube within the pelvic cavity of the patient.

(Complete specification 7 pages

Drawing 1 sheet)

Class : 141 D.

158698

Int. Class : C21c 5/36.

"METHOD AND DEVICE FOR REDUCING OXIDE CONTAINING FINE PARTICLE METALLIC ORES"

Applicant : VOEST ALPINE AKTIENGESELLSCHAFT, a company organized under the laws of Austria of Werksgelande, 6010 Linz, Austria.

Inventors : WALTER LUGSCHEIDER, ALOIS LEUTGOB, ERNST RIEGLER & PAUL MULLNER.

Application for patent No. 936/Del/82 filed on 24th December 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

(12 Claims)

A method of reducing oxide-containing fine-particle metallic ores of the kind such as herein described, wherein said oxide containing fine particle metallic ores are melted and reduced in a rotationally symmetric melting vessel in the presence of carbon carriers of the kind such as herein described by the action of a plasma jet generated by a plasma burner, characterised in that at least a portion of the oxide-containing fine particle metallic ores to be reduced are laterally introduced into said melting vessel through charging openings provided in the side wall of said melting vessel and are set in a cyclonic rotational movement to produce a rotating particle stream, and that the plasma jet of the plasma burner is generated along a substantially vertical axis of said melting vessel and is surrounded by said rotating particle stream.

(Complete specification 13 pages

Drawing 2 sheets)

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Cement Research Institute of India to the grant of a patent on application No. 151927 made by Orissa Cement Limited as notified in the Gazette of India, Part-III, Section 2, dated the 3rd March, 1984 has been dismissed and ordered that a patent to be sealed.

(2)

An opposition entered by Cement Research Institute of India to the grant of a patent on application No. 151928 made by Orissa Cement Ltd., as notified in the Gazette of India, Part-III, Section 2 dated the 3rd March 1984 has been dismissed and ordered that a patent to be sealed.

(3)

The opposition to the grant of a patent on application No. 157587 entered by M/s. Kinetic Honda Motor Limited as notified in the Gazette of India, Part-III, Section 2 dated the 22nd November 1986 has been withdrawn.

(4)

An opposition has been entered by Elpro International Limited to the grant of a patent on application No. 157791 made by Hitachi Limited.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT 1970

The claim made by Kin's Development Limited under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 154199 in their name has been allowed.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

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(4)

152831 152832 152833 152834 152835 152836 152837 152838
152839 152840 152841 152842 152843 152844 152845 152846
152847 152848 152849 152850 152851 152852 152853 152854
152855 152856 152857 152858 152859 152860 152861 152862
152863 152864 152865 152866 152867 152868 152869 152870
152871 152872 152873 152874 152875 152876 152877 152878
152879 152880 152881 152882 152883

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145526 145537 145555 145559 145560 145587 145612 145624
145637 145649 145669 145707 145719

PATENTS SEALED

154428 156697 155735 155965 155989 155990 156104 156198
156227 156231 156356 156391 156448 156464 156550 156574
156629 156656 156666 156681 156695 156722 156727 156739
156746 156747 156763 156764 156791 156803 156804 156816
156827 156829 156831 156839 157103 157128 157171 157237
157243 157245 157267

AMENDMENT PROCEEDING UNDER SECTION 57

Notice is hereby given that Nadella (A French Body Corporate) 16 Avenue de la Republique-92503 Rueil-Malmaison (France) have made an application Under Section 57 of the Patents Act, 1970 for amendment of application, specification and drawings of their Patent application No. 157533 for "Articulation Device Having a Double Universal Joint and a Ball Joint Unit."

The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 215, Acharya Jagadish Bose Road, Calcutta-700017 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

REGISTRATION OF ASSIGNMENTS, LICENCES ETC.

(PATENTS)

Assignments, Licences or other transactions effecting the interests of the original Patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests.

135631 142892 144852 146501 147898 151667 150764 151585
Motor Industries Co. Ltd.,

RENEWAL FEES PAID

(2)

137687 137975 138096 138216 138235 139290 139340 140223
 140339 140379 140390 140475 140501 140659 140738 140878
 140896 140897 141246 141905 141983 142056 142173 143022
 143171 143227 143372 143464 143590 143747 144007 144160
 144272 144434 144548 144679 144905 145022 145188 145274
 145297 145389 145465 145669 145707 145762 146066 146119
 146325 146497 146570 146591 146643 146670 146820 146849
 146940 146951 146973 147048 147090 147449 147567 147516
 147716 147851 148060 148183 148184 148210 148229 148295
 148299 148346 148587 148613 148808 148896 149016 149082
 149184 149195 149461 149480 149573 149595 149724 149798
 149799 149925 150018 150029 150045 150062 150073 150074
 150125 150284 150342 150345 150347 150351 150419 150462
 150592 150628 150715 150739 150768 150800 150880 150896
 150933 150981 150996 151110 151254 151375 151630 151728
 151794 151811 151859 151909 151942 152048 152260 152261
 152296 152297 152313 152339 152364 152370 152427 152467
 152484 152515 152580 152623 152786 152810 152811 153156
 153277 153278 153304 153342 153358 153359 153363 153420
 153464 153776 153779 153883 154031 154098 154126 154147
 154227 154232 154243 154435 154451 154452 154453 154454
 154481 154483 154485 154489 154495 154498 154524 154539
 154543 154567 154572 154578 154608 154613 154655 154656
 154657 154662 154675 154677 154678 154680 154681 154742
 154765 154796 154800 154803 154815 154819 154820 154824
 154830 154832 154840 154870 154885 154945 154946 154948
 154950 154981 154988 154989 155021 155023 155056 155057
 155089 155113 155114 155115 155119 155146 155149 155158
 155178 155188 155198 155219 155229 155235 155244 155265
 155279 155291 155293 155340 155342 155348 155363 155365
 155369 155428 155469 155601 155602 155603 155704 155725
 155759 155767 155768 155776 155777 155780 155781 155782
 155812 155859 155882 155886 155890 155891 155916 155918
 155922 155925 155932 155937 155939 155941 155943 155945
 155948 155949 155954 155977 155978 155982 155983 155999
 156023 156174 156179 156193 156225 156240 156344 156345
 156346 156349 156360 156626 156644 156647 156651 156654
 156659 156679 156709 156711 156712 156896.

CESSATION OF PATENTS

151632

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 150239 dated the 19th March, 1980 made by Etscheid India Private Limited on the 15th January, 1986 and notified in the Gazette of India, Part III, Section 2 dated the 16th August, 1986 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 150331 dated the 12th May, 1981 made by Swapan Kumar Sen on the 3rd December, 1984 and notified in the Gazette of India, Part III, Section 2 dated the 25th May, 1985 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151379 granted to Niku Purnachandra for an invention relating to "a process for casting of metallic hollow ingots, billets, rods and slabs".

The Patent ceased on the 28th January, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 8th November, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 3rd March 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153224 granted to Union Carbide Corporation for an invention relating to "battery".

The patent ceased on the 18th September, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 8th November, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 3rd March 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application for restoration of Patent No. 153687 dated the 18th February, 1986 made by Indian Drugs & Pharmaceuticals Ltd. on the 30th December, 1985 and notified in the Gazette of India, Part III, Section 2 dated the 19th July, 1986 has been allowed and the said patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 154302 dated the 11th April, 1980 made by Societe De Paris Et Du Rhone on the 19th March, 1986 and notified in the Gazette of India, Part III, Section 2 dated the 19th July, 1986 has been allowed and the said patent restored.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154671 granted to Bal Krishan Gupta for an invention relating to "an improved pen sharpener".

The Patent ceased on the 21st April, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 8th November, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, the Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 3rd March 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157019. Etona Company, Limited, of 22-7, Igusa 3-chome, Suginami-ku, Tokyo, Japan, a Japanese Company. "Stapler". 5th May, 1986.

Class 1. Nos. 157150, 157151, 157152. Bharat Industries, Sardar V. P. Road, Janta Garden Chowk, Rajkot-360002, Gujarat State, India, Indian Partnership Firm. "Knife". 16th June, 1986.

Class 1. No. 157184. Dewas Metal Sections Private Limited, a Company incorporated in India, of Steel Tube Road, Dewas-455 001 (M.P.) India. "Metal Section". 20th June, 1986.

Class 1. No. 157237 Expo Gas Containers Private Limited, 150, Sheriff Devji Street, Bombay-400 003, Maharashtra, India, a Private Limited Company incorporated under the Indian Companies Act. "Pressure Cooker". 9th July, 1986.

Class 3. No. 157018. Kushmi Kosmetics, an Indian registered Partnership Firm of 301, Poonam Chambers, Dr. Annie Besant Road, Worli, Bombay-400 018, Maharashtra, India. "Bottle". 2nd May, 1986.

Class 3. No. 157074. Swedish Match consumer Products S.A., a Swiss Joint-stock Company, of P.O. Box 222, CH-1260 NYON, Switzerland. "a Body to Lighter". 19th May, 1986.

Class 3. No. 157086. United Industries, an Indian Sole Proprietary Firm of 106, Sarung Street, Delhiwala Building, 3rd Floor, Room No. 18, Bombay-400 003, Maharashtra, India. "Toy Motor Cycle". 27th May, 1986.

Class 3. No. 157087. Arvind Plastic Industries, A Registered Indian Partnership Firm of 17, Ganke Industrial Estate, 2nd Floor, Room No. 17, Ramchandra Lane, Malad (West), Bombay-400 064, State of Maharashtra, India. "JUG". 27th May, 1986.

Class 3. No. 157088. Arvind Plastic Industries, A Registered Indian Partnership Firm of 17, Ganko Industrial Estate, 2nd Floor, Room No. 17, Ramchandra Lane, Malad (West), Bombay-400 064, State of Maharashtra, India. "LID". 27th May, 1986.

Class 3. No. 157140. Hindustan Ciba-Geigy Limited, an Indian company of 14, Jamshedji Tata Road, Bombay-400 020, Maharashtra, India. "a Tooth-brush". 11th June, 1986.

Class 3. No. 157235. Mangesh Enterprises, 90-B, Bhawe Compound, Ghokhale Road, Naupada, Thane-400602, Maharashtra, India, an Indian Partnership Firm. "Electric Mixer Attachment". 9th July, 1986.

Class 3. No. 157238. Wimco Pen Company, 11, Mehta Industrial Estate, 1st Floor, I.B. Patel Road, Goregaon (East), Bombay-400063, Maharashtra, India, an Indian Partnership Firm. "Water Bottle". 9th July, 1986.

Class 3. No. 157239. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I.B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Ice Pail". 9th July, 1986.

Class 3. Nos. 157240, 157241. Ajay Kumar Virmani of Rainbow Cosmetics, P 50 Bangur Avenue, Block-C, Calcutta-700 055, West Bengal, India, an Indian National. "Container". 9th July, 1986.

Class 3. No. 157298. Racold Appliances Pvt. Ltd., Vandhna, 12th Floor, 11 Tolstoy Marg, New Delhi-110001, India, an Indian Company. "Handle For Electric Iron". 30th July, 1986.

Class 3. No. 157310. Geep Industrial Syndicate Limited, (Formerly known as Geep Flashlight Industries Limited), Manufacturers, of 28, South Road, Allahabad, Uttar Pradesh, India, an Indian Company. a "Dry Cell Hand Torch". 1st August, 1986.

Class 30. Nos. 157082, 157083. Bata India Limited, 30 Shakespeare Sarani, Calcutta-700 017, West Bengal, India. a "wootwear". 22nd May, 1986.

Extn. of Copyright for the Second period of five years.

No. 155781. Class 3.

Nos. 155661, 155662. Class 5.

Extn. of Copyright for the Third Period of five years.

No. 155781. Class 3.

Nos. 155661, 155662. Class 5.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks.